

UHP NMS v3

NETWORK MANAGEMENT SYSTEM

SCPC

TDM/TDMA

Hubless TDMA

Overview

The UHP network management system (UHP NMS) is an advanced user-friendly instrument for controlling and monitoring of satellite communication networks based on the UHP platform. NMS substantially simplifies configuration of Hub and network Terminals, as well as in the simple and evident form provides information about current and historical conditions of the whole network and its individual elements. UHP NMS distributes configuration to devices, collects and stores statistics into database, analyzes network state and provides network operators with detailed information in graphical and tabular form.

With support of any network topologies and various modes of UHP operations the Network Management System allows providing professional network operations and increase overall customer satisfaction.

Architecture

NMS application software is shipped pre-installed on Linux server. The NMS server is usually collocated to the UHP Hub, but can also perform control and monitoring of remote hubs through leased IP connection or the Internet. UHP NMS provides multi-user and multi-language web interface and supports multiple Virtual Network Operators sharing common network resources with proper user rights and network resources allocation.

UHP NMS consists of three basic components: the system core, the web-based user interface and the configuration/statistics database. The core communicates with the UHP equipment analyzing its behavior and collecting statistics. The database holds this information for specified number of time, usually several years. Configuration is held in MySQL database, statistics is held in binary form which is more efficient and fast to access. Binary format is open for external access or export. The web interface shows all collected information in graphical form and provides mechanisms for configuration of the network equipment.

Benefits

NMS interface and underlying logic were seriously optimized for providing the operator with the most important information needed for network analysis and troubleshooting. Depending on individual preferences and exact actions needed operators can use different strategies for work “from logs”, “from graphs” or “from tables”. Hub and network base screens “dashboards” provide maximum information for quick overview of the system operation. User configurable dynamic station event groups which are unique feature of UHP NMS allow to pre-filter problematic stations for quick access and problem examination.

- Enhanced Graphical Interface – web-based, multi-user, multi-language
- Comprehensive dashboard – complete network overview just on one screen
- Dynamic Events Station Groups – simplify filtering and analysis of network events
- Events correlator – combines parameter graphs with related network events and faults
- Customized reports – graphical and tabular forms, export network statistics for further analysis
- Advanced statistics and analysis – exhaustive data for network troubleshooting
- Supports various UHP modes – TDM/TDMA, TDM/TDMA Mesh, Hubless TDMA, incl. redundant systems
- Multi-Hub management – all networks just in a single workspace of UHP NMS
- Virtual Network Operator – share your network and NMS with multiple VNOs
- Ideal for any size networks – from a simple link and up to a multi-hub network
- One-way control – allows sending “blind” commands to non-responding terminals
- Open Interface to statistical data – allows integration with external SW products
- Simple and robust design – ensures reliability and simplifies further enhancements





UHP NMS 3.X SPECIFICATIONS

SERVER

Hardware	Rack-mountable 1U, Intel 2.6 GHz, 3GB RAM, 200GB/SATA (higher on demand)
Operating System	Linux
Network Interface	1 FastEthernet/Gigabit Ethernet

NETWORK

Supported UHP networks	TDM/TDMA, TDM/TDMA MESH, Hubless TDMA
Maximal number of terminals	500 000
Multi-Hub operations	Up to 25 Hubs
Virtual Network Operators	Up to 25 VNOs per each hierarchy level
Statistics database disc use	20 Mbytes/year/terminal
Statistics gathering interval	From 10 seconds (1 minute default)

ORDER CODE / MODIFICATIONS

UHP-NMS-BASE	UHP NMS 3.X Server Basic: Support for one network
UHP-NMS-VNO	UHP NMS 3.X Server VNO: Support for multiple networks and VNO



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